IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Method A method for manufacturing an actuation system for an optical component, the method comprising:

[[-]] etching of a first face [[(51)]] of a component to form pads (14, 54, 154),

[[-]] etching of a second face [[(53)]] of the said component to expose a flexible or deformable membrane (12, 52, 152) made of the same material as the pads, and

[-production of producing actuation means (16, 17, 30, 32, 56, 57) of the pads and membrane.

Claim 2 (Currently Amended): Method The method according to claim 1, the wherein said membrane and the said pads having have a total thickness less than 30 μ m, or between 5 μ m and 15 μ m.

Claim 3 (Currently Amended): Method The method according to claim 1-or-2, the wherein said membrane having and said pads have a total thickness between [[1]] 5 µm and [[5]] 15 µm.

Claim 4 (Currently Amended): Method The method according to one of claims 1 to 3 Claim 1, the wherein said component being is made from a semiconducting material or glass[[(51)]], and being is provided with a surface layer [[(60)]] of semiconducting material or nitride in which the pads and membrane are etched.

Claim 5 (Currently Amended): Method The method according to one of claims 1

to 4-claim 1, the wherein said component being is of the SOI type comprising a surface layer of silicon[[(501)]], an insulating layer [[(502)]] and a substrate[[(503)]], the pads and the membrane being made in the surface layer of silicon.

Claim 6 (Currently Amended): Method The method according to one of claims 1-to 3 claim 1, the wherein said component being is a silicon substrate covered by an insulating layer and a layer of polysilicon or a silicon substrate covered by a nitride layer, the pads and the membrane being made in the insulating or polysilicon or nitride layer respectively.

Claim 7 (Currently Amended): Method The method according to one of claims 1 to 3 claim 1, the wherein said component being is a silicon substrate doped on two sides (151, 153), the membrane and the pads being made in portions (152, 153) that are doped differently from each other.

Claim 8 (Currently Amended): Method The method according to one of claims 1 to 7 claim 1, the wherein said actuation means being is of the electrical or magnetic or thermal or piezo-electric type.

Claim 9 (Currently Amended): Method The method according to one of claims 1 to 7 claim 1, the wherein said actuation means being is of the electrical type and comprising comprises one or several mobile electrodes (16, 56), connected to the said pads of the device, and one or several fixed electrodes (17, 57).

Claim 10 (Currently Amended): Method The method according to one of claims 1-to 7 claim 1, the wherein said actuation means being is of the magnetic type and comprising

<u>comprises</u> one or several mobile coils [[(30)]] or magnets, connected to the pads of the device, and one or several fixed magnets [[(32)]] or coils.

Claim 11 (Currently Amended): Method-The method according to one of claims 1 to 10 claim 1, also-further comprising a step for making a first part [[(56)]] of the said actuation means on the pads.

Claim 12 (Currently Amended): Method-The method according to claim 11, also further comprising an assembly step with a second substrate [[(58)]] on which a second part [[(57)]] of the said actuation means is made, which cooperates with the first part to actuate the said pads and the said membrane.

Claim 13 (Currently Amended): Method The method according to one of claims 1 to 10 claim 1, the wherein said actuation means (16, 17, 30, 32, 56, 57) being is performed in an assembly step of the said membrane and pads with a second substrate [[(58)]] on which these said means were previously formed.

Claim 14 (Currently Amended): Method-The method according to one of claims 1 to 13 claim 1, the wherein said pads having have a width or a width base less than 2 μ m.

Claim 15 (Currently Amended): Method-The method according to one of claims 1 to 14 claim 1, the wherein said pads having have a height / width ratio less than 20.

Claim 16 (Currently Amended): Method-The method for making an optical component comprising production of an actuation system according to one of claims 1 to 15 claim 1, and further comprising formation of reflecting means on the membrane.

Claim 17 (Currently Amended): Mechanical A mechanical actuation system, for an optical component, comprising:

- [[-]] a membrane (12, 52, 152) provided with pads (14, 54, 154) formed integrally with the said membrane on one of its faces, the said pads or the said membrane being made:
- [[•]] in a surface layer [[(60)]] made of semiconducting material or nitride, formed on a semiconducting material or glass[[(50)]],
 - [[•]] or in the silicon surface layer [[(501)]] of an SOI type component,
- [[•]] or in a polysilicon or nitride surface layer deposited either directly on a substrate, or on an insulating layer itself deposited on a substrate,
 - [[•]] or in differently doped zones (152, 153) of a semiconducting substrate[[.]] and
 - [[-]] actuation means (16, 17, 30, 32, 56, 57) of the said pads and said membrane.

Claim 18 (Currently Amended): System The system according to claim 17, the wherein said membrane and said pads having-have a total thickness less than 30µm or between 5µm and 30µm.

Claim 19 (Currently Amended): System The system according to claim 17-or-18, the flexible-wherein said membrane having has a thickness between 1 µm and 5 µm.

Claim 20 (Currently Amended): System-The system according to one of claims 17 to 19 claim 17, the wherein said membrane being is flexible.

Claim 21 (Currently Amended): System The system according to one of claims 17 to 20 claim 17, the wherein said actuation means being is of the electrical or magnetic or thermal type.

Claim 22 (Currently Amended): System-The system according to one of claims 17 to 20 claim 17, the wherein said actuation means being is of the electrical type and comprising comprises one or several mobile electrodes (16, 56), connected to the said pads of the device, and one or several fixed electrodes (17, 57).

Claim 23 (Currently Amended): System-The system according to one of claims 17 to 20 claim 17, the wherein said actuation means being is of the magnetic type and comprising comprises one or several mobile coils or magnets[[(30)]], connected to the pads of the device, and one or several fixed magnets or coils[[(32)]].

Claim 24 (Currently Amended): System The system according to one of claims 17 to 23 claim 17, the wherein said pads having have a width or width base less than 2 μ m.

Claim 25 (Currently Amended): System The system according to one of claims 17 to 24 claim 17, the wherein said pads having have a height / width ratio less than 20.

Claim 26 (Currently Amended): Optical An optical component comprising an actuation system according to one of claims 17 to 25 claim 17, and reflecting means on the membrane.

Claim 27 (New): The method according to claim 1, wherein said membrane has a thickness of between 1 μm and 5 $\mu m.$